

YEAR 12 A/ B –PHYSICS

WEEK 2 (6th September to 10th September) 3 lessons for both batches

Work sent to the students through: Google classroom / Zoom Learning Platform

Topic: Fluid Mechanics

Lesson Objective: State Archimedes's principle – Differentiate between laminar and turbulent flow and discuss viscous drag

Resources: Student text book, worksheet file, interactive power point from Board works and Online animations

Date	Class	Lesson	Lesson objectives & Learning outcomes	Mode of teaching	
6 th Sept Sunday	12 A	8	L.O – Define and derive an expression for Upthrust. State Archimedes's principle.	Zoom	Teacher uses interactive power point presentation ,breakout session in zoom app and mentimeter quiz to check their understanding
8 th Sept Tuesday	12 B	6	Learning outcomes- State law of floatation and describe situations where it is applicable. Relate the principle of a hydrometer to Plimsoll line on ships. Use secondary data from hydrometers to predict density of fluids.		
7 th Sept Monday	12 A	1	L.O – Differentiate between laminar and turbulent flow in fluid movements.	Zoom	Teacher uses interactive power point presentation and breakout sessions for students to collaborate and attain the objectives.
10 st Sept Thursday	12 B	3	Learning outcomes- Predict the conditions under which a laminar flow can change to turbulence. Draw stream lines to illustrate both types of flow.		
7 th Sept Monday	12 A	2	L.O- Realise what is viscosity of a fluid and use the equation for viscous drag Derive the equation for terminal velocity.	Zoom	Teacher uses interactive power point presentation and breakout sessions for students
10 st Sept	12 B	4	Learning outcomes-		

Thursday			<p>Discuss the limitations of Stokes' law & suggest how their effects can be minimized Be able to draw force diagrams for different parts of the velocity–time graph. Introduce the idea of 'terminal velocity'. Calculate the gradient and then identify that it equals $\frac{x}{\text{viscosity}}$ where the value of x is provided.</p>		to collaborate and attain the objectives.
----------	--	--	---	--	---

YEAR 12 A/ B –PHYSICS

WEEK 2 (6th Sept to 10th Sept) - 3 lessons for both batches

Work sent to the students through: Whatsapp group / Google classroom / Zoom Learning Platform

Topic: Units & Estimation

Lesson Objective: Estimate values for physical quantities.

Resources: Student text book, worksheet file, interactive power point from Board works and Online animations

Date	Class	Lesson	Lesson objectives & Learning outcomes	Mode of teaching	
6 th Sept Sunday	12 B	6	L.O –Understand the prefixes used with SI units	Zoom	Teacher uses power point presentation that contains interactive questions.
8 th Sept Tuesday	12 A	4	Learning outcomes- Use the prefixes and their symbols to indicate decimal submultiples or multiples of both base and derived units – <i>pico, nano,micro,milli, centi, deci, kilo, mega, giga, tera</i>		
6 th Sept Sunday	12 B	7	L.O – Estimate values for physical quantities.	Zoom	Teacher uses interactive power point presentation to explain the concepts and guide students to solve problems.
10 th Sept Thursday	12 A	1	Learning outcomes- Use the estimates of physical quantities to solve problems		
9 th Sept Wednesday	12 B	3	L.O: To solve the worksheet on Units & estimation	GC	Worksheet assigned through GC Instruction will be given in the GC to complete the worksheet
10 th Sept Thursday	12 A	2	Learning outcomes- Students will be able to reinforce the concepts learned in the previous lessons by solving the worksheet		

